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PST No 81

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Kornilov, I. I., Ozhimkova, O. V., and
Pryakhina, L. I.
CORRELATION BETWEEN COMPOSITION, TEMPER-
ATURE, AND HEAT RESISTANCE OF NICKEL-
CHROMIUM-TUNGSTEN-TITANIUM-ALUMINUM AL-
LOYS. 6 Mar 61, 2p. AID rept. 61-25; AD-254 394.
Order from OTS or SLA \$1.10 61-19627

Abstract trans. of Akademiya Nauk SSSR. Otdeleniye
Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Top-
livo, 1960, no. 5, p. 137-141.

DESCRIPTORS: *Nickel alloys, *Chromium alloys,
*Tungsten alloys, *Titanium alloys, *Aluminum alloys,
Heat resistant alloys

The alloy studied was of constant Cr, W, and Ti con-
tent (not specified) and varying aluminum and (in-
versely) nickel content (0 to 16%). The solubility of
aluminum in nickel-base solid solution was found to de-
crease with decreasing temperature. At 1200°C solu-
bility was 5.5%; at 1100°C, 4.2%; at 1000°C, 3%; and
(Metallurgy, TT, v. 6, no. 4) (over)

I. Kornilov, L. I.
II. Ozhimkova, O. V.
III. Pryakhina, L. I.
IV. AID-61-25
V. Air Information Div.,
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VI. AD-254 394

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H. Cygielski, B. Sc., No 8/4/61
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Dartford, Kent - England

Sci - Chem, Min/Metal

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Ti₆Al Compound

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DESCRIPTORS: *Pigments, *Inorganic substances.

The object of the investigation was an economical, cement-stable, inorganic blue pigment. Systematic treatment was successful in finding, in Manganese Blue, a technically satisfactory solution. In addition, different other blue pigments, consisting of binary (analogous to Rivanis green) or ternary oxide compounds, were found. The work was extended to rust-protective pigments and subsequently the ferrites of Pb and Ba, and especially of lead cyanamide were found to be very good rust-protective pigments.
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62-10040

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